

FlightApp
- database: FlightDatabase - clients: HashMap<String, User> - currentUser: user - searchItinerary: List<Itinerary> - searchFlight: List<Flight>
+ FlightApp(): void + login(String email): void + addClient(String email, String info): void + addAdmin(String email): void + viewClientInfo(String email): String + getItineraries(String origin, String destination, String departure): List<Itinerary> + getItinerariesString(): List<String> + getFlights(String origin, String destination, String departure): List<Flight> + getFlightsString(): List<String> + uploadFlightFile(String fileName): void + addFlight(Flight flight): void + addFlightFile(String path): void + getClients(): List<String> + getClientsFromFile(): List<String> + changeClientInfo(String email, String info): void + changeClientInfoFile(String path): void

User
- email: String - clientInfo: List<String> - itineraries: List<Itinerary>
+ User(String email): void + User(String email, String info): void + addItinerary(Itinerary itinerary): void + deleteItinerary(Itinerary itinerary): void + loadInfo(): void + loadItinerary(String line): void + changeClientInfo(List<String> newInfo): void + changeClientInfoString(String newInfo): void

FlightDatabase
- database: HashMap<Flight, HashSet<Flight>
+ FlightDatabase(): void + addFlightFile(String filename): void + addFlight(Flight newFlight): void + makeItineraries(String origin, String destination, date departure): ArrayList<Itinerary> + makeItineraries(String origin, String destination, String departure): ArrayList<Itinerary> + makeItinerariesString(ArrayList<Itinerary itineraries): ArrayList<String> + makeFlights(String origin, String destination, Date departure): ArrayList<Flight> + makeFlights(String origin, String destination, String departure): ArrayList<Flight> + makeFlightsString(ArrayList<Flight> flights): ArrayList<String> + sortFlightsLeastCost(List<Flight> flights): List<Flight> + sortFlightsGreatestCost(List<Flight> flights): List<Flight> + sortFlightsLeastTime(List<Flight> flights): List<Flight> + sortFlightsGreatestTime(List<Flight> flights): List<Flight> + sortItinerariesLeastCost(List<Itinerary> itineraries): List<Itinerary> + sortItinerariesGreatestCost(List<Itinerary> itineraries): List<Itinerary> + sortItinerariesLeastTime(List<Itinerary> itineraries): List<Itinerary> + sortItinerariesGreatestTime(List<Itinerary> itineraries): List<Itinerary>

Flight
- flightNum: String - departure: Date - arrival: Date - airline: String - origin: String - destination: String - cost: double - time: double
+ Flight(String flightNum, String departure, String arrival, String airline, String origin, String destination, double cost): void + getDepartureString(): String + getArrivalString(): void

Itinerary
- flights: ArrayList<Flight> - totalCost: double - totalTime: double - departure: Date - arrival: Date - origin: String - destination: String